

### ABSTRACT

A medical lead for electrical stimulation or sensing. The medical lead has a generally flat paddle on the distal end of the lead body. An electrode array is provided on the paddle. The electrode array having directional electrical field properties relative to the first and major surfaces of the paddle (e.g., the electrodes are exposed through only one of the major surfaces). An orientation marker for determining orientation of the lead, with the orientation marking including fluoroscopically viewable material.